IN THE CLAIMS

Please amend the claims as follows:

- 1. (Currently Amended) An electrical power generator comprising:
 - a) a water vapor generator;
- b) a hydrogen gas generator attached to the water vapor generator, said hydrogen generator containing a substantially non-fluid substance which reacts with water vapor to generate hydrogen gas; said hydrogen generator optionally being attached coupled to said water vapor generator via at least one conduit; and
- c) a fuel cell attached to the hydrogen gas generator; said fuel cell-optionally-being attached coupled to said hydrogen gas generator-via at least one conduit; and
 - d) a valve that regulates water vapor flow to the hydrogen gas generator
- 2. (Original) The power generator of claim 1 further comprising at least one conduit connecting the water vapor generator to the hydrogen gas generator and at least one conduit connecting the generator to the fuel cell.
- 3. (Original) The power generator of claim 1 further comprising a return line which directs residual water vapor and hydrogen gas from the fuel cell to the water vapor generator.
- 4. (Original) The power generator of claim 1 wherein the water vapor generator comprises a chamber at least partially filled with water.
- 5. (Original) The power generator of claim 1 wherein the water vapor generator comprises a chamber at least partially filled with a mixture of water and alcohol.
- 6. (Original) The power generator of claim 1 wherein the water vapor generator comprises a chamber at least partially filled with water vapor.

Serial Number: 10/780,827 Filing Date: February 18, 2004

Title: ELECTRICAL POWER GENERATOR

Page 3 Dkt: H0004291

7. (Original) The power generator of claim 1 wherein the water vapor generator is at least partially filled with ice.

- 8. (Original) The power generator of claim 1 wherein the hydrogen gas generator comprises a chamber at least partially filled with a substantially non-fluid substance which reacts with water vapor to generate hydrogen gas.
- 9. (Original) The power generator of claim 1 wherein the hydrogen gas generator comprises a chamber at least partially filled with a substantially non-fluid substance which reacts with a mixture of alcohol and water vapor to generate hydrogen gas.
- 10. (Original) The power generator of claim 1 further comprising hydrogen gas initially loaded within at least one of said water vapor generator, hydrogen gas generator, fuel cell and said optional conduits.
- 11. (Original) The power generator of claim 1 further comprising at least one device attached to at least one of said water vapor generator, said hydrogen generator or said fuel cell for causing an initial flow of water vapor from the water vapor generator to the hydrogen gas generator.
- 12. (Original) The power generator of claim 1 wherein said substantially non-fluid substance comprises a material selected from the group consisting of alkali metals, calcium hydride, lithium hydride, lithium aluminum hydride, B₁₀H₁₄, sodium borohydride, lithium borohydride and combinations thereof.
- 13. (Original) The power generator of claim 1 wherein said substantially non-fluid substance comprises sodium borohydride.
- 14. (Original) The power generator of claim 1 wherein said substantially non-fluid substance comprises lithium borohydride.

- 15. (Original) The power generator of claim 1 wherein said substantially non-fluid substance comprises lithium aluminum hydride.
- 16. (Original) The power generator of claim 1 further comprising a hydrogen generation catalyst combined with said substantially non-fluid substance.
- 17. (Original) The power generator of claim 16 wherein said catalyst is selected from the group consisting of cobalt, nickel, ruthenium and alloys and combinations thereof.
- 18. (Original) The power generator of claim 1 further comprising at least one pump for pumping hydrogen gas and water vapor between the water vapor generator and the fuel cell.
- 19. (Original) The power generator of claim 18 wherein the at least one pump comprises a mesopump.
- 20. (Original) The power generator of claim 1 further comprising at least one valve for regulating the passage of water vapor between the water vapor generator and the hydrogen gas generator.
- 21. (Original) The power generator of claim 20 wherein the at least one valve comprises a mesovalve.
- 22. (Original) The power generator of claim 20 wherein the at least one valve is controlled by gas pressure within the power generator.
- 23. (Original) The power generator of claim 20 wherein the at least one valve regulates gas pressure within the power generator.

Serial Number: 10/780,827 Filing Date: February 18, 2004

Title: ELECTRICAL POWER GENERATOR

Page 5 Dkt: H0004291

24. (Original) The power generator of claim 1 further comprising porous plugs adjacent to

said water vapor generator, said plugs substantially impeding the flow of liquid water from said water vapor generator and substantially allowing the flow of hydrogen gas and water vapor into

and out of said water vapor generator.

25. (Original) The power generator of claim 1 wherein said substantially non-fluid substance

is in powder, granule or pellet form.

26. (Original) The power generator of claim 1 wherein said fuel cell is at least partially

surrounded by a thermal insulator.

27. (Original) The power generator of claim 1 further comprising a heater adjacent to the

fuel cell.

28. (Original) The power generator of claim 1 further comprising a tensile membrane within

the water vapor generator which exerts pressure directing water vapor from the water vapor

generator to the hydrogen gas generator.

29. (Original) The power generator of claim 1 wherein the water vapor generator, the

hydrogen gas generator, said fuel cell and said optional conduits are formed within a polymeric

block.

30. (Original) The power generator of claim 29 wherein the polymeric block comprises a

polyethylene, a polyimide, a polycarbonate, an acrylic, or combinations thereof.

31. (Currently Amended) A process for generating hydrogen gas for fueling a fuel cell

comprising:

a) directing water vapor from a water vapor generator to a hydrogen generator, said

hydrogen generator being at least partially filled with a substantially non-fluid substance which

reacts with water vapor to generate hydrogen gas: and

Serial Number: 10/780,827

Filing Date: February 18, 2004 Title: ELECTRICAL POWER GENERATOR Page 6 Dkt: H0004291

b) directing said hydrogen gas and any residual water vapor to a fuel cell and

regulating water vapor flow to the hydrogen generator.

32. (Original) The process of claim 31 wherein a mixture of water vapor and alcohol vapor

are directed to the hydrogen generator.

33. (Currently Amended) The process of claim 31 further comprising:

e) directing any residual water vapor and any residual hydrogen gas from the fuel cell back to the

water vapor generator.

34. (Original) The process of claim 31 further comprising directing water vapor and any

present hydrogen gas from the water vapor generator to the hydrogen generator via at least one

conduit, and directing hydrogen gas and any residual water vapor from the hydrogen gas

generator to the fuel cell via at least one conduit.

35. (Original) The process of claim 31 further comprising directing water vapor and any

present hydrogen gas from the water vapor generator to the hydrogen generator via at least one

conduit, and directing said hydrogen gas and any residual water vapor to the fuel cell via at least

one conduit; and returning any residual water vapor and any residual hydrogen gas from the fuel

cell to the water vapor generator via at least one return line.

36. (Original) The process of claim 31 wherein the water vapor generator comprises a

chamber at least partially filled with water vapor.

37. (Original) The process of claim 31 wherein the passage of said water vapor from the

water vapor generator to the hydrogen generator is controlled by at least one valve.

38. (Original) The process of claim 37 which valve is valve controlled by the pressure of

said hydrogen gas.

Serial Number: 10/780,827 Filing Date: February 18, 2004

Title: ELECTRICAL POWER GENERATOR

Page 7 Dkt: H0004291

39. (Original) The process of claim 31 wherein said substantially non-fluid substance

comprises a material selected from the group consisting of alkali metals, calcium hydride,

lithium hydride, lithium aluminum hydride, sodium borohydride, lithium borohydride, and

combinations thereof.

40. (Original) The process of claim 31 wherein said substantially non-fluid substance

comprises lithium borohydride.

41. (Original) The process of claim 31 wherein said substantially non-fluid substance

comprises sodium borohydride.

42. (Original) The process of claim 31 wherein said substantially non-fluid substance

comprises lithium aluminum hydride.

43. (Original) The process of claim 31 wherein said substantially non-fluid substance is in

powder, pellet or granule form.

44. (Original) The process of claim 31 further comprising pumping said water vapor and any

present hydrogen from said water vapor generator to said hydrogen gas generator.

45. (Original) The process of claim 44 wherein the pumping is conducted with a mesopump.

46. (Original) The process of claim 31 further comprising heating said fuel cell with a

heater.

47. (Original) The process of claim 31 comprising directing water vapor from the water

vapor generator to the hydrogen gas generator by pressure from a tensile membrane within the

water vapor generator.

Serial Number: 10/780,827 Filing Date: February 18, 2004

Title: ELECTRICAL POWER GENERATOR

Page 8 Dkt: H0004291

48. (Original) The process of claim 31 further comprising causing an initial flow of water vapor from the water vapor generator to the hydrogen gas generator via at least one device attached to at least one of said water vapor generator, said hydrogen generator or said fuel cell.

- 49. (Currently Amended) In an improved process for generating electrical energy wherein water and hydrogen gas are directed from a water containing chamber to a fuel cell; and water and any residual hydrogen gas are directed from the fuel cell back to the water containing chamber; and water and hydrogen gas are directed through a hydrogen gas generator, which hydrogen gas generator is connected to each of the fuel cell and water containing chamber and which hydrogen gas generator is at least partially filled with a substance which reacts with water to generate hydrogen gas, wherein the improvement comprises contacting water in the form of regulated water vapor with a substantially non-fluid substance which reacts with water vapor to generate hydrogen gas.
- 50. (Original) The process of claim 49 wherein said substantially non-fluid substance comprises lithium borohydride.
- 51. (Original) The process of claim 49 wherein said substantially non-fluid substance comprises sodium borohydride.
- 52. (Original) The process of claim 49 wherein said substantially non-fluid substance comprises lithium aluminum hydride.

53-54. (Cancelled)